

15th Street & Reed Market Road Roundabout Assessment Summary



BACKGROUND

The City of Bend is committed to transportation safety, using innovative tools like roundabouts to move people quickly, safely and reliably around Bend. In 2014, the city constructed a roundabout at 15th Street and Reed Market Road to replace a traffic signal that had a high number of injury crashes. This roundabout uses a multi-lane hybrid design to meet immediate travel demand needs and allow for phasing of additional lanes in the future, if needed. It is one of five newer roundabouts in Bend that have been constructed with the City's updated roundabout design standards. The roundabout was funded through a General Obligation (GO) Bond. As part of the GO Bond planning, the Old Farm District Neighborhood Association requested an assessment of the roundabout to understand its performance. Below are the findings from field data that were collected during an assessment of the roundabout.

FINDINGS

The safety and operations of the roundabout at 15th Street and Reed Market Road is within or above national averages. Drivers are generally complying with lane assignments, yielding at crosswalks, and driving within expected operating speeds. Results indicate a high level of overall safety and efficiency.

Reported crashes per year went from **18 to 2**, an **84% decrease**

National average is 29% decrease when changing from a signal to a roundabout



94-100% of drivers use the correct lane

Crosswalk Yield Rate
95%-100% entering the roundabout

National average is 76%



Crosswalk Yield Rate
75% exiting the roundabout

National average is 54%

What is the Yield Rate?

- A 95% Yield Rate means that, most of the time, the first driver stops at the crosswalk
- A 75% Yield Rate means one vehicle may go by, while the second driver stops



Average roundabout speeds fall within design expectations:

15 MPH entering
17 MPH circulating
22 MPH exiting



Efficient design moves more people

Data shows about 200 more vehicles than the national average fit through at this roundabout

www.bendoregon.gov/roundabouts

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